Commercial Sump, Sewage & Effluent Pumps
GRUNDFOS PIP

The Grundfos PIP series vortex pumps are designed for pumping water or sewage in non-hazardous applications where explosion-proof motors are not required. The all cast iron construction of the pump makes it extremely durable against corrosion. The pumps vortex impeller allows it to pass up to 2 inch solids and can handle stringy trash without clogging the impeller.

GRUNDFOS PIP 1/2 HP to 1 HP

PUMP SPECIFICATIONS

Discharge	2" NPT, Vertical, Bolt-on Flange	Cord Entry	2" NPT - 20 FT. (6.1m) Custom Molded for Sealing and Strain Relief
Liquid Temperature	104°F (40° C) Intermittent		
Motor Housing	Cast Iron ASTM A-48, Class 30	Speed	3450 RPM, 60Hz (Nominal)
Volute	Cast Iron ASTM A-48, Class 30		
Seal Plate	Cast Iron ASTM A-48, Class 30	Upper Bearing Design	Single Row, Ball, Oil Lubricated
Impeller Design	Vortex, Open with Pump Out Vanes on Back Side. Dynamically Balanced, ISO G6.3	Upper Bearing Load	Radial
		Lower Bearing Design	Single Row, Ball, Oil Lubricated
Impeller Material	85-5-5-5 Cast Iron		
Shaft	416 Stainless Steel	Lower Bearing Load	Radial & Thrust
Square Rings	Buna-N	Motor Design	NEMA L, Single Phase,
Hardware	300 Series Stainless Steel		NEMA B, Three Phase Torque Curve, Oil Filled Squirrel Cage Induction
Paint	Air Dry Enamel, Top Coat		
Seal Design	Single Mechanical, or Tandem Mechanical with Oil Filled Reservoir	Motor Insulation	Class B Class F on Selected Models
Seal Material	Rotating Faces - Carbon	Single Phase	Permanent Split Capacitor (PSC)
	Stationary Faces - Ceramic	Three Phase	200-240/480 is Tri-Voltage Motor.
	Elastomer - Buna-N		600V Requires Overload Protection to be Included in Control Panel
	Hardware - 300 Series Stainless Steel		

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GRUNDFOS **PIP** Technical Data – 1/2 HP to 1 HP

V104970P
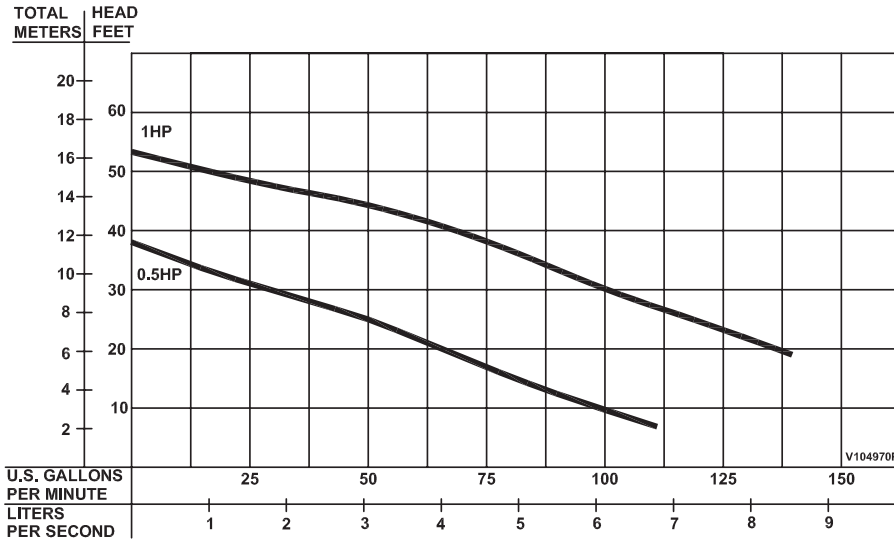
MODEL NO.	HP	VOLT/PH	HZ	RPM (Nom)	NEMA START CODE	INSUL. CLASS	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CODE TYPE	CORD O.D. inch (mm)	WINDING RESISTANCE		
												"Emerson Main-Start"	"Franklin Main-Start"	"G.E. Main-Start"
PIP512L*	0.5	120/1	60	3450	G	B	12.6	24.6	14/3	SJTOW	0.375 (9.5)	1.04-7.20	1.47-9.59	–
PIP522L	0.5	240/1	60	3450	E	B	6	10.2	14/3	SOW	0.530 (13.5)	–	5.08-9.00	10.10-10.16
PIP592L	0.5	200-240/3	60	3450	P/R	B	5.8/5.3	19.9/18.4	14/4	SOW	0.570 (14.5)	–	5.5	6.3
PIP542L	0.5	480/3	60	3450	R	B	2.6	9.1	14/4	SOW	0.570 (14.5)	–	22	25.18
PIP552L	0.5	600/3	60	3450	T	B	2.1	8.7	14/4	SOW	0.570 (14.5)	21.20	–	34.57
PIP1022L	1	240/1	60	3450	F	B	10.7	21.8	14/3	SOW	0.530 (13.5)	–	2.37-6.44	3.04-15.49
PIP1092L	1	200-240/3	60	3450	H/J	B	7.9/7.5	19.9/18.4	14/3	SOW	0.570 (14.5)	–	5.5	6.3
PIP1042L	1	480/3	60	3450	J	B	3.7	9.1	14/4	SOW	0.570 (14.5)	–	22	25.18
PIP1052L	1	600/3	60	3450	L	B	2.9	8.7	14/4	SOW	0.570 (14.5)	21.20	–	34.57

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.
OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture & Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) O.D. (*) Pump is CSA listed ONLY.

inches (mm)

ELEC. CONN.

19.41 (493)

6.66 (169)

12.63 (321)
6.25 (159)
1.50 (38)
4.88 (124)
9.75 (248)

ELEC. CONN.

Plugs for 120 Volt and .5Hp, 240 Volt Single Phase Models.
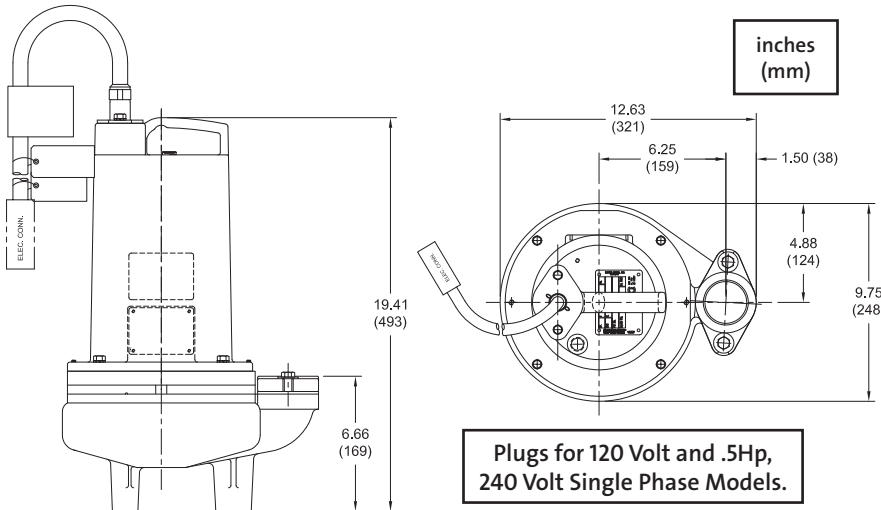
PIPXXX-L SERIES

PUMP MODEL NO. _____

PUMP SERIAL NO. _____

IMPORTANT !

1.) Pump may be operated "dry" for extended periods without damage to motor and/or seals.
2.) This pump is appropriate for those applications specified as class I division II hazardous locations.
3.) This pump is not appropriate for those applications specified as class I division i hazardous locations.
4.) Installations such as decorative fountains or water features provided for visual enjoyment must be installed in accordance with the national electric code ANSI/NFPA 70 and/or the authority having jurisdiction. This pump is not intended for use in swimming pools, recreational water parks, or installations in which human contact with pumped media is a common occurrence.

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